

Residential Sector Update

Oregon Roundtable
October 15-16, 2014

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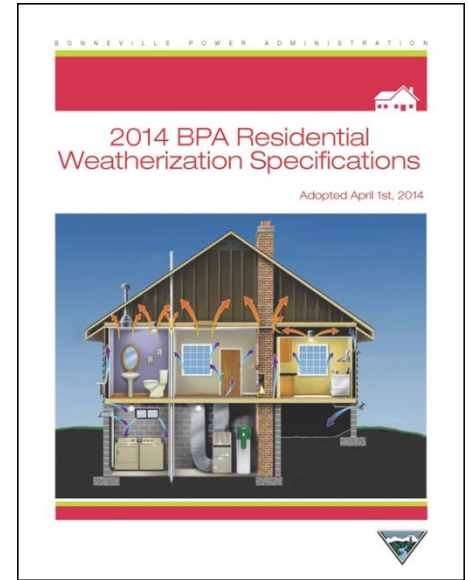
Overview

- Changes and new opportunities
 - Weatherization
 - HVAC
 - New Construction
 - Lighting and Appliances
 - Simple Steps program evolution
 - New contract timeline
 - Retail Sales Allocation tool

Weatherization

Current:

- 2014 Res Wx specs eff. Oct 1st
- 6 follow-up meetings
- 2014 Spec and Best Practices
- Online trainings at WxTrainingNW.com
- Expanded definition of “electrically heated”

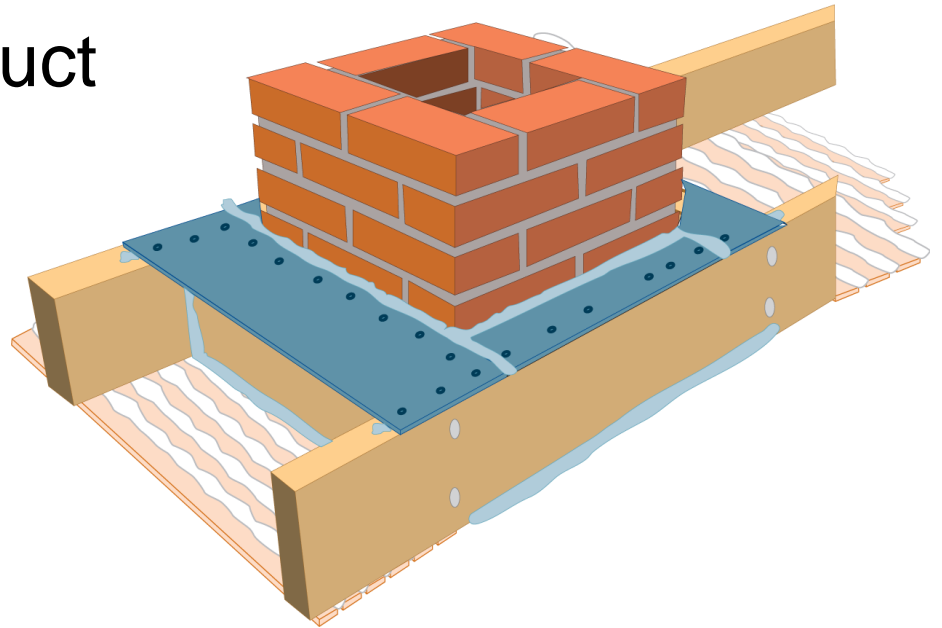


In process:

- Checklists, templates, marketing tools

New Prescriptive Measures

- Prescriptive air sealing
 - Attics and Crawlspace
- Prescriptive duct sealing
 - Identical to PTCS duct sealing
 - No testing
 - Free training



Update to the Res Wx spec

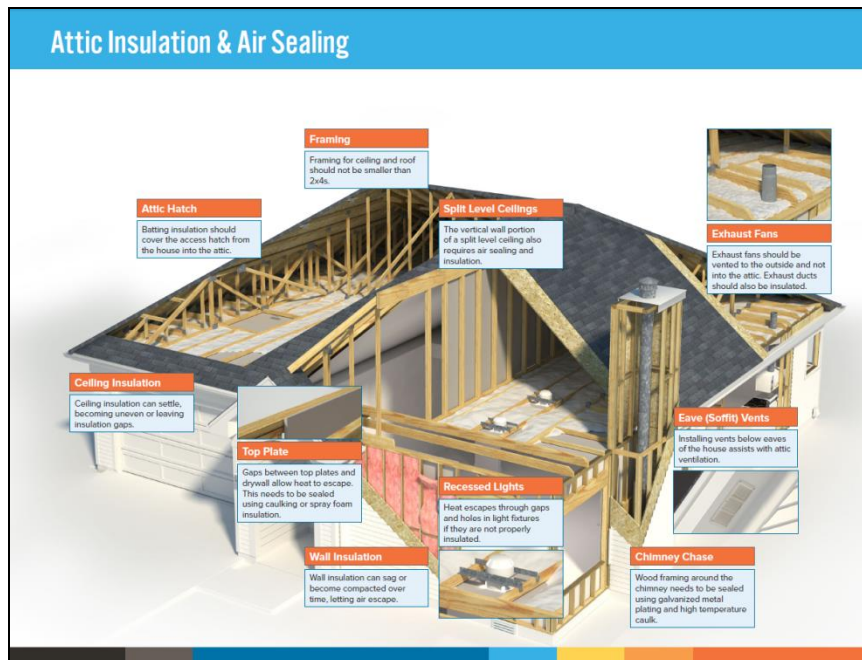
Amend 2011 specification using utility feedback

- Used plain language, improved organization
- Removed programmatic and non-energy requirements
- Simplified interactions with code
- Aligned with current industry practices

Weatherization

Program tools:

- Checklists, templates, communication tools



Prescriptive Attic Air Sealing Installation Checklist			
Site Information		Install Date:	
Participant Name:		Participant Phone:	
Site Address:	City:	State:	Zip:
		Installer	Inspector
		Foreman	
1.	Weather-stripping: Installed between the attic access frame and hatch provides an effective air seal.		
2.	Gasket or weather-stripping: Installed between pull down stair cover frame and door provides an effective air seal, or an air-tight cover installed between stairs and attic.		
3.	Duct boots: Mastic, caulk, or other air-tight seal installed around the perimeter of duct boots between the boot and the ceiling.		
4.	Chases: Sealed with foam, caulking, and rigid barriers attached to attic floor or wall. Clearances maintained from combustible materials. Fire-rated materials used as appropriate near heat-producing devices.		
5.	Non-IC rated fixtures: Foam, caulk or another air-tight seal installed between fixture and ceiling, or a drywall or another non-flammable air-sealed insulation shield installed over fixture. Shield extended above new attic insulation. No insulation covers the top of the shield.		
6.	IC rated fixtures: Fixture sealed between interior finish and the fixture. Fixture is not covered with spray foam and openings in the fixture are not sealed. An air-tight box or prefabricated cover is acceptable. Attic insulation installed over fixture.		
7.	Bath fans: Foam, caulk, or other air-tight seal installed around perimeter of bath fans. Fire-resistant caulk used for bath fans with a heat source. Gaps larger than 1" spanned with sheet metal.		
8.	Electrical fixtures and plumbing penetrations: Foam, caulk or other airtight seal installed around perimeter.		
9.	Other penetrations: Drywall-to-top-plate connections, wood-to-wood seams, penetrations through the top plate sealed with foam or caulk.		
10.	Drop soffits: Rigid material installed and sealed with foam or caulk to close off drop soffits from the attic.		
11.	Knee wall door: Weatherstripping between door jamb and attic access frame. Latch installed if necessary.		
12.	Floor joists under kneewalls: Rigid material installed between floor joists. Perimeter of each joist space foamed or caulked.		
13.	Tops of balloon-framed walls: Foam, caulk, or other air-tight seal installed at the tops of balloon-framed walls and to open walls between split-level attic areas. Perimeter of each stud space foamed or caulked.		
Notes:			
By signing below, I certify that the items marked as completed on this checklist were completed for this site.			
Installation Company Representative:		Date:	
Contractor Name:		Phone:	

Version 1.0 – Revision date: 7/1/14

RTF updates to Wx savings

- Phase I: Calibrate SEEM to RBSA billing data
 - Used billing data from houses with a good heating signature
- Phase II: Supplemental Heat/Occupancy (16%)
 - Wood/Gas heat and partial occupancy in “program-eligible” homes
- Option 3: Accounts for Measure Interactions
 - Measures have different savings depending on the condition of the house
- Sept 17 RTF meeting – SEEM calibration of Wx measures approved
- Next – BPA will review QC of measures before accepting

http://rtf.nwcouncil.org/meetings/2014/09/SEEMCalibrationandOption3_Overview_v3.pptx

HVAC

■ DHP

- DHP HSPF increased to 9.0 (8.0 for multi-head)
- Added DHP for Manuf-zonal electric
- Added DHP to low income measures (4/1/14)

■ Ducted Systems

- ASHPs and Duct Sealing unbundled
- Standard income DS reduced to \$200/250
- Prescriptive Duct Sealing (eff. 10/1/14)
- PTCS site registry moving to BPA.gov



New Construction

- High Performance Manufacture Homes
 - 8 prototypes built over the last year
 - Work continuing on recycle/replace concept

- New Energy Star/Built Green (WA) measures under development for April '15

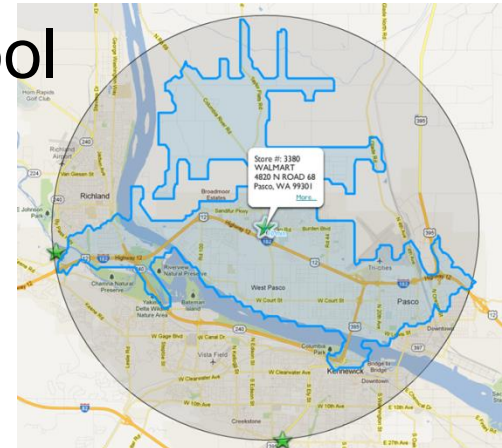
Lighting and Appliances

In process for April 2015:

- Leaner/simpler delivery mechanisms:
 - CFLs, LEDs, Showerheads, APS
 - Retail, Direct Install, By-Request
 - Mailed non-request still available (bulbs only)
- Air Generate removed from Tier 2 QPL
- Survey required for Advanced Power Strips
- New contract for *Simple Steps, Smart Savings*

Lighting and Appliances

- Current:
 - New Program Manager – Dave Murphy
 - Updated measures from the RTF
 - Sent clothes washer measure back to RTF
- Building midstream/upstream opportunities
 - Finalizing the Retail Sales Allocation Tool
 - Simple Steps contract re-bid underway



Simple Steps, Smart Savings

- Midstream/upstream program model
- Turnkey program delivery
 - lighting, showerheads, appliances, APS, and more!
 - Opt-in rather than direct acquisition, higher participation will equal lower cost
- Timeline:
 - Request for offers – Sept 3rd
 - Offers received – Oct 14th
 - Award decision by Nov 6th
 - **Presentation of New Program Thurs, Nov 13th.**
 - **Utility opt-in Nov 7 – Dec 5th**
 - New program launch – April 1, 2015



Future of Residential support

- Midstream/upstream program models
- Program toolkit resources (checklists, calculators, marketing)
- Support for home energy audits
- Multifamily program models
- Centralized rebate processing
- Support for low income programs
- Behavior Based programs
- Other ? ? ?

(ideas generated by Future Opportunities(2013)/Post 2011, etc.)

Feedback

- Additional questions?
- Feedback to today's presentation
- Other areas that need support?
- Other ways to get your feedback?

Residential Team

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